

Please insert the following at page 15, line 15:

A3

BRIEF DESCRIPTION OF THE DRAWINGS

Please insert the following at page 16, line 13:

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DETAILED DESCRIPTION

In the Claims:

Please substitute the following claim 4 for the pending claim 4:

- A5
4. (Once Amended) A source according to Claim 2 wherein:
- at the front surface of the target, the field direction substantially normal to the front surface is towards the front surface;
 - magnetic field strength in said direction decreases with increasing distance from the target to a point of zero field strength substantially normal to the front surface; and
 - from said point of zero field strength, with increasing distance from the target, the field direction is away from the front surface of the target.

Please substitute the following claim 5 for the pending claim 5:

5. (Once Amended) A source according to Claim 2 wherein:
- at the front surface of the target, the field direction substantially normal to the front surface is away from the front surface and towards the substrate;
 - magnetic field strength in said direction decreases with increasing distance from the target to a point of zero field strength substantially normal to the front surface; and
 - from said point of zero field strength, with increasing distance from the target, the field direction is towards the front surface of the target.

Please substitute the following claim 7 for the pending claim 7:

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7. (Once Amended) A source according to Claim 2 wherein at the point of zero field strength in a direction substantially normal to the target, a field strength in a direction substantially lateral to the target is at least 10mT.

Please substitute the following claim 10 for the pending claim 10:

A7
10. (Once Amended) A cathode arc source comprising:
a cathode;
an anode;
a vacuum chamber;
means for generating a magnetic field in the vacuum chamber;
a cathode station for location of a target in electrical contact with the cathode, said target having a front and a rear surface; and
means for striking an arc at the front surface of the target;
wherein the magnetic field generating means is for generating a magnetic field at the front surface of the target and wherein the magnetic field has a lateral field component effective to maintain the arc on the front surface of the target during operation and a normal field component with direction substantially normal to the front surface of the target and zero field strength at a position above the target and inside the chamber.

Please substitute the following claim 14 for the pending claim 14:

14. (Once Amended) A method according to Claim 11 further comprising using the second magnetic field to steer plasma from the arc through a macroparticle filter.

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